Specifications

DXP HDMI Series

> **NOTE:** *Appropriate HDMI to DVI-D cables or adapters are required for DVI signal input/output.

Video

Routing

DXP 44 HDMI	4 x 4 matrix
DXP 48 HDMI	4 x 8 matrix
DXP 84 HDMI	8 x 4 matrix
DXP 88 HDMI	8 x 8 matrix

Signal type .... TMDS digital RGB and single-link DVI digital video signals are supported

Digital video .... RGB digital video (DVI and HDMI standards) or Y, Cr, Cb digital component video (HDMI), actively buffered (supports all single-link DVI and HDMI [if using an optional adapter] standards from 640x480 @ 60 Hz to 1600x1200 @ 60 Hz computer video and HDTV 480p, 720p, 1080i, 1080p)

> **NOTE:** The DXP HDMI Series switchers support HDMI specification features including data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, and HD lossless audio formats.

Digital audio .... Supports HDMI audio transmitted through the RGB and Y, Cr, Cb lines, actively buffered.

Consumer Electronics Control (CEC)
  Not supported

EDID and DDC .... Supports Extended Display Identification Data (EDID) and Display Data Channel (DDC) data using DVI and HDMI standards. EDID and DDC signals are actively buffered.

HDCP .... Compliant with High-bandwidth Digital Content Protection (HDCP) using DVI and HDMI standards

HPD .... Supports hot plug detection (HPD) of display as a pass-through signal.

Gain.. Unity

Resolution range .... Up to 1080p (HDTV) or 1920x1200 (the highest resolution of the single-link DVI standard) @ 60 Hz

Maximum data rate........................ 6.75 Gbps (2.25 Gbps per color)

Maximum pixel clock...................... 225 MHz

Standards....................................... DVI 1.0, HDMI

Switching speed............................. 200 ns, max.

Video input

Number/signal type .... 4 or 8 (depending on model) digital RGB (TMDS) HDMI (or single-link DVI-D*)

Connectors .... 4 or 8 female HDMI type A (digital only)

Nominal level

Digital video .... 1.2 Vp-p

DDC (Display Data Channel) .... 5.0 Vp-p (TTL)

Minimum/maximum level .... 0.5 V to 1.0 Vp-p with no offset

Impedance .... 100 ohms

Return loss .... <-15 dB @ 1 MHz to 1.5 GHz

TDR rise time (10%-90%) .... 75 ps

Equalization .... Automatic

Input cable length .... >100' (30 m) at 1920x1200 @ 48, 50, or 60 Hz; or 1080p; 8 bit color

> **NOTE:** The transmission distance varies depending on the signal resolution and on the type of cable, graphic card, and display used in the system.

Video output

Number/signal type .... 4 or 8 (depending on model) digital RGB
Connectors .... 4 or 8 female HDMI type A
Nominal level .... 1.2 Vp-p
Minimum/maximum level(s)............ 0.5 V to 1.0 Vp-p with no offset (follows input)
Impedance .... 100 ohms
Return loss .... <-15 dB @ 1 MHz to 1.5 GHz
DC offset .... ±500 mV maximum with input at 0 offset
Rise and fall time (20-80%)............ 0.6 ns
Re-clocking .... Automatic
Peripheral device power .... 250 mA per output

Control/remote — switcher

Serial control port........................... (1) RS-232, 9-pin female D connector
(1) RS-232, front panel 2.5 mm mini stereo jack
Baud rate and protocol................... 9600 to 115200 baud, 9600 baud (default), 8 data bits, 1 stop bit, no parity
Serial control pin configurations
    9-pin D connector.................... 2 = Tx, 3 = Rx, 5 = GND
    Mini stereo jack .... Tip = Tx, ring = Rx, sleeve = GND
Ethernet control port...................... (1) RJ-45 female connector
Ethernet data rate .... 10/100Base-T, half/full duplex with autodetect
Ethernet protocol .... ARP, ICMP (ping), IP, TCP, DHCP, HTTP, Telnet
Default settings............................. Link speed and duplex level = autodetected
IP address = 192.168.254.254
Subnet mask = 255.255.0.0
Gateway = 0.0.0.0
DHCP = off
Program control .... Extron control/configuration program for Windows®
Extron Simple Instruction Set (SIS™)
Microsoft® Internet Explorer® ver. 6 or higher, Telnet

General

Power supply................................... Internal
Input: 100-240 VAC, 50-60 Hz
Power consumption .... 48 watts, fully loaded 8 x 8 unit
Temperature/humidity .... Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing
Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling... Fan, air flows right to left (as viewed from front)
Thermal dissipation, full load.......... 164 BTU/hr
Mounting
    Rack mount .... Yes, 2U high
Enclosure type................................ Metal
Enclosure dimensions .... 3.5" H x 17.5" W x 12.0" D (2U high, full rack wide)
(8.9 cm H x 44.4 cm W x 30.5 cm D)
(Depth excludes connectors. Width excludes integrated rack ears.)
Product weight............................... 10.0 lbs (4.5 kg)
Shipping weight............................. 15 lbs (7 kg)
Vibration....................................... ISTA 1A in carton (International Safe Transit Association)

Regulatory compliance
     Safety .... CE, c-UL, UL
     Compliances .... CE, C-tick, FCC Class A, ICES, VCCI
Warranty .... 3 years parts and labor

> **NOTE:** All nominal levels are at ±10%.

> **NOTE:** Specifications are subject to change without notice.

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